

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☒ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.

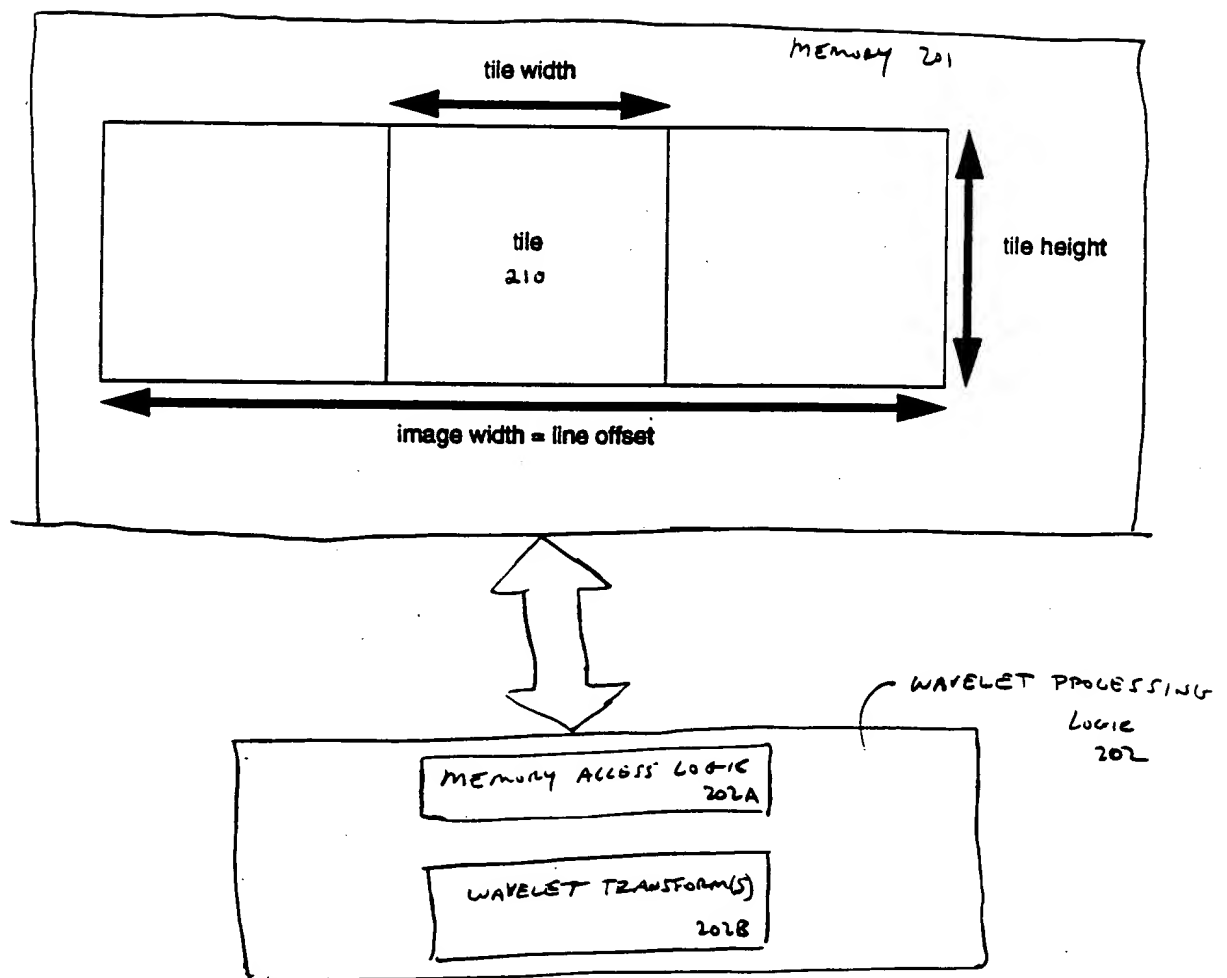
[illegible]

Figure 2

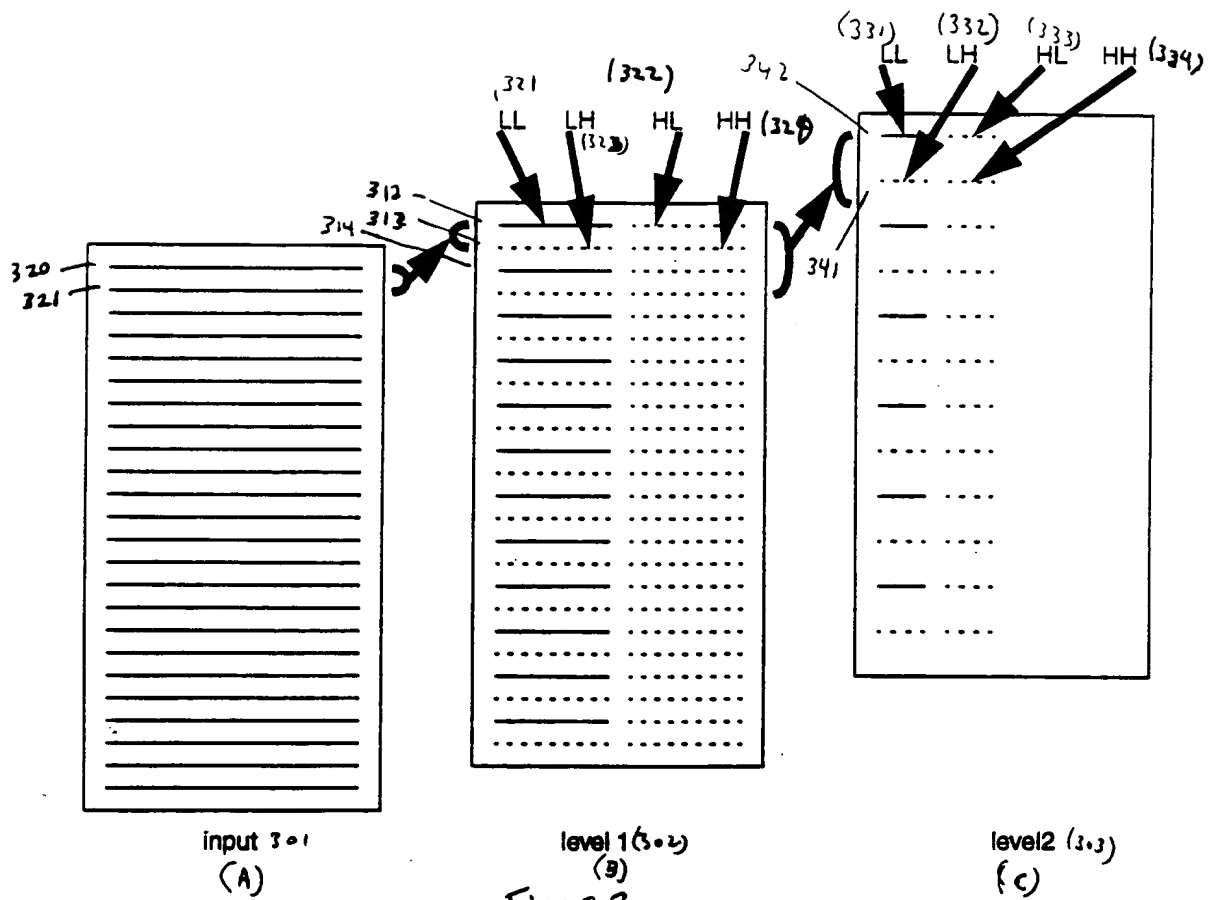


Figure 3

1993-1994

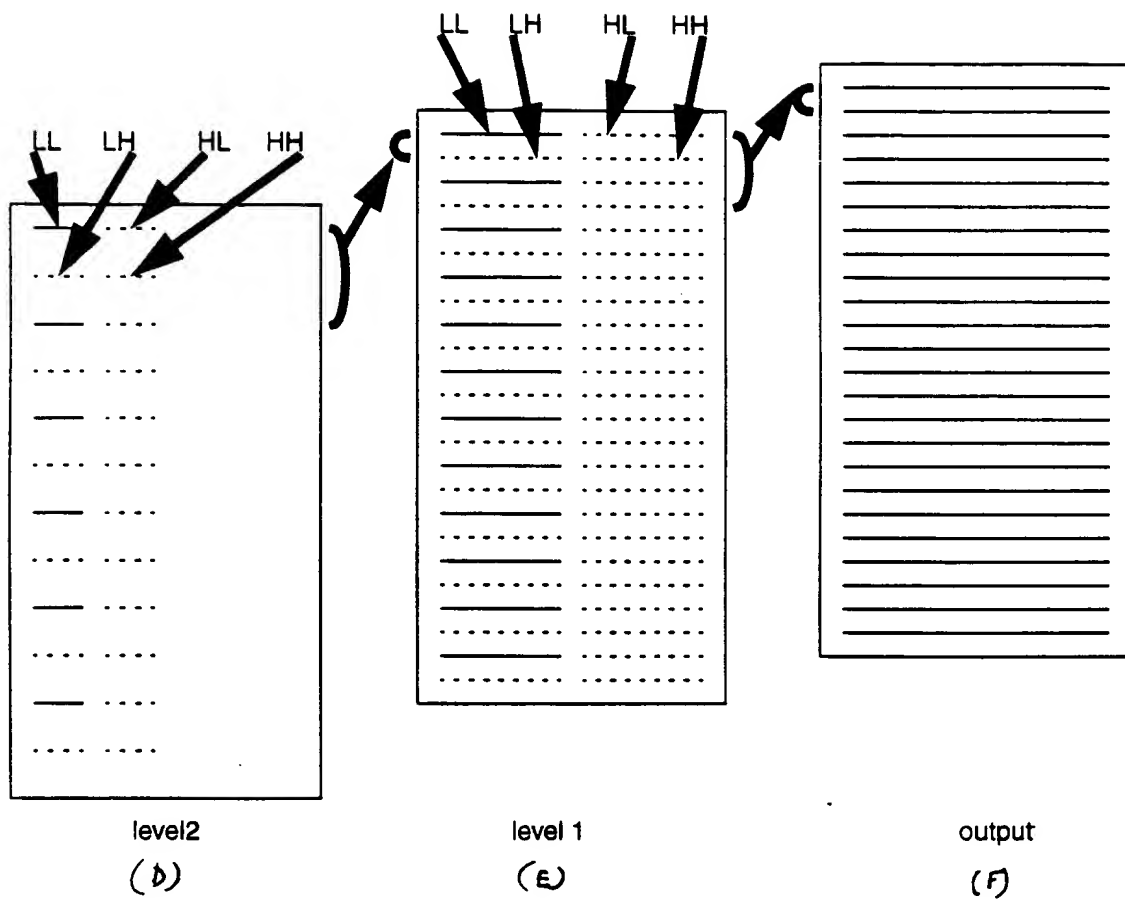


Figure 3

The diagram illustrates a hierarchical tree structure. The main structure is a vertical rectangle divided into horizontal segments. The top segment is labeled '8'. Below it are segments labeled '4' and '2'. A break symbol (two parallel slanted lines) indicates a jump in the hierarchy. Below the break, there are segments labeled 'height-2', '(2)', and '(-3)'. The bottom segment is labeled 'width'. To the right of the main structure, there are three vertical arrows labeled 'input', 'level 1', and 'level 2'. A third arrow labeled 'level 3' points upwards. A bracket on the right side of the main structure points to a detailed view of a node, labeled '450'. This node is a rounded rectangle containing a smaller rectangle divided into segments labeled '4', '2', and 'height/8'. To the right of this node are three vertical arrows labeled 'level 4', 'level 5', and 'level 6'. The width of the node is labeled 'width/8'.

Figure 4 A

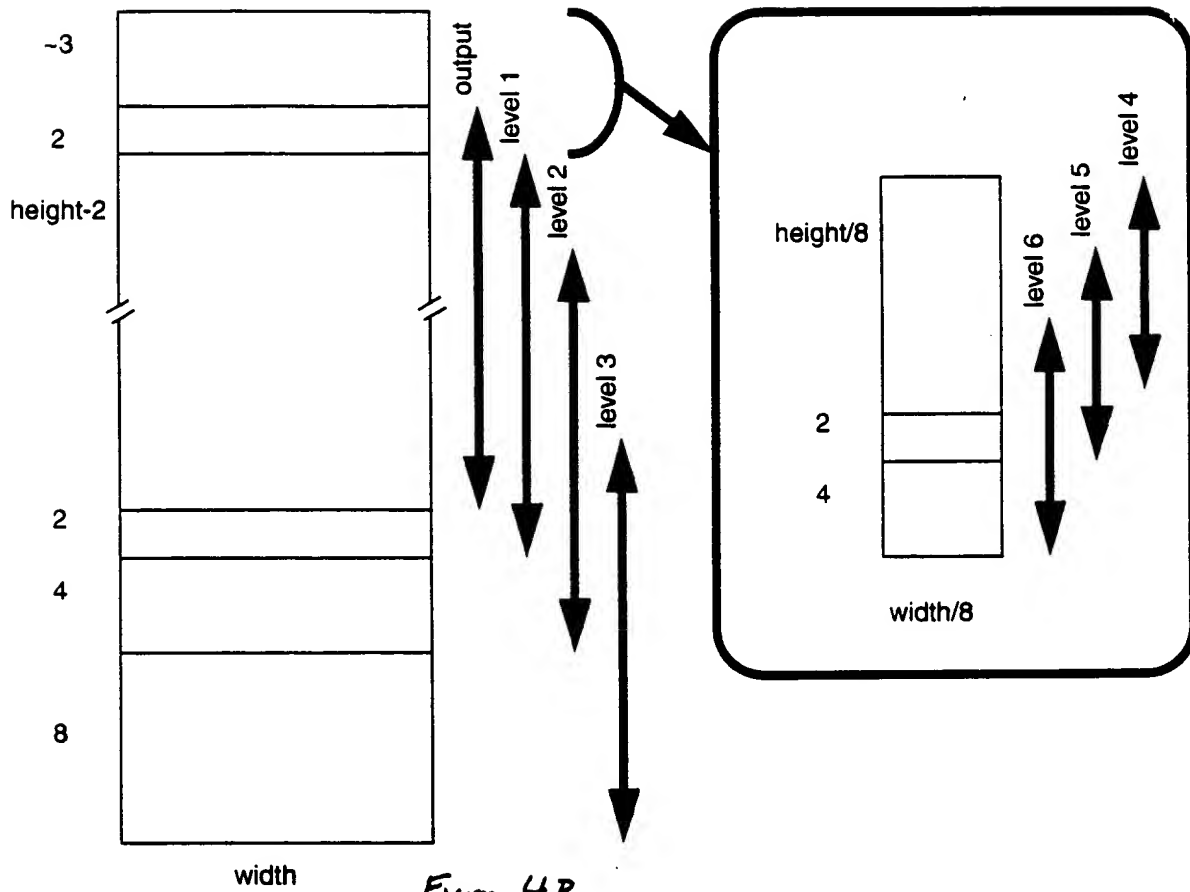


Figure 4B

The diagram illustrates the architecture of a video encoder, showing the flow of data from input to storage:

- Input:** "color input pixels (RGB) in raster order" enter from the top.
- Tile and Memory:** A dashed box labeled "tile" is shown. A solid box labeled "memory to store pixels" is adjacent to it. A horizontal double-headed arrow above the memory box is labeled "image width - tile width". A vertical double-headed arrow to the right of the memory box is labeled "tile height".
- Processing:** An arrow from the input and another from the "memory to store pixels" (labeled *501*) point to a dashed box labeled "color conversion and/or level shifting".
- Buffers:** Three arrows from the "color conversion and/or level shifting" box point to three separate solid boxes, each labeled "coefficient buffer for one tile, one component (used by transform)". These buffers are labeled *502₁*, *502₂*, and *502_N* at the bottom.
- Encoding:** Arrows from the three coefficient buffers point to a dashed box labeled "context model and entropy coder" (labeled *503/504*).
- Output:** An arrow from the "context model and entropy coder" points to a solid box labeled "coded data memory" (labeled *505*).

Figure 5

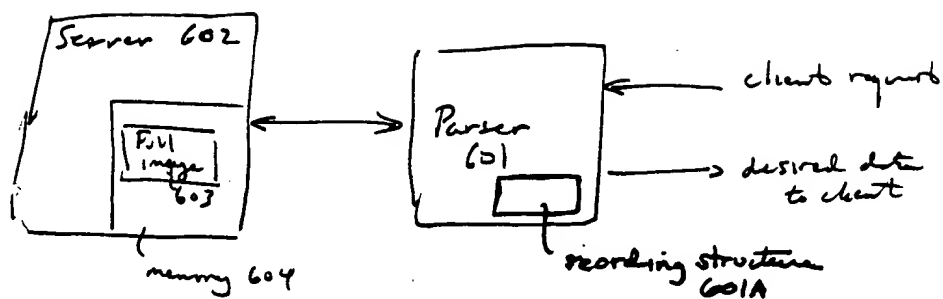


Fig 6A

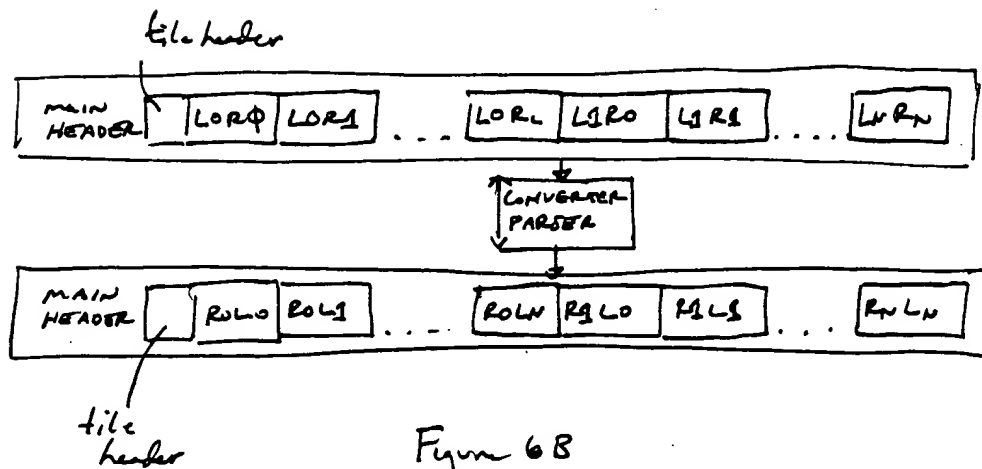


Figure 6B

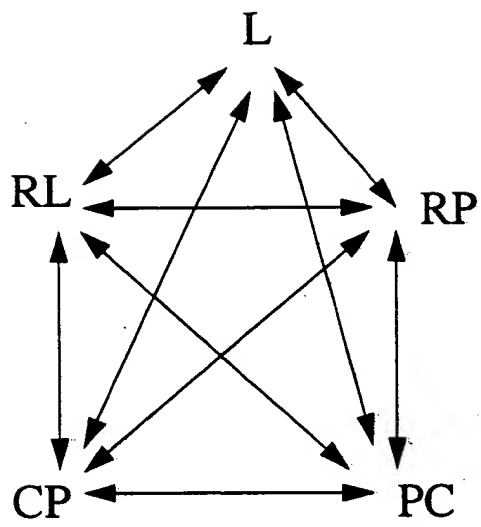
[illegible]

Figure 7A

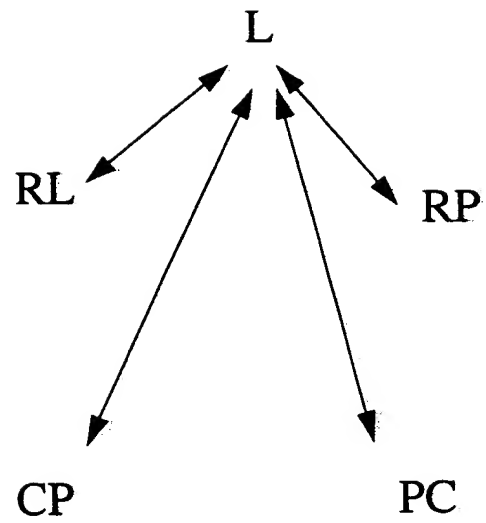


Figure 7B

FIG. 15670360

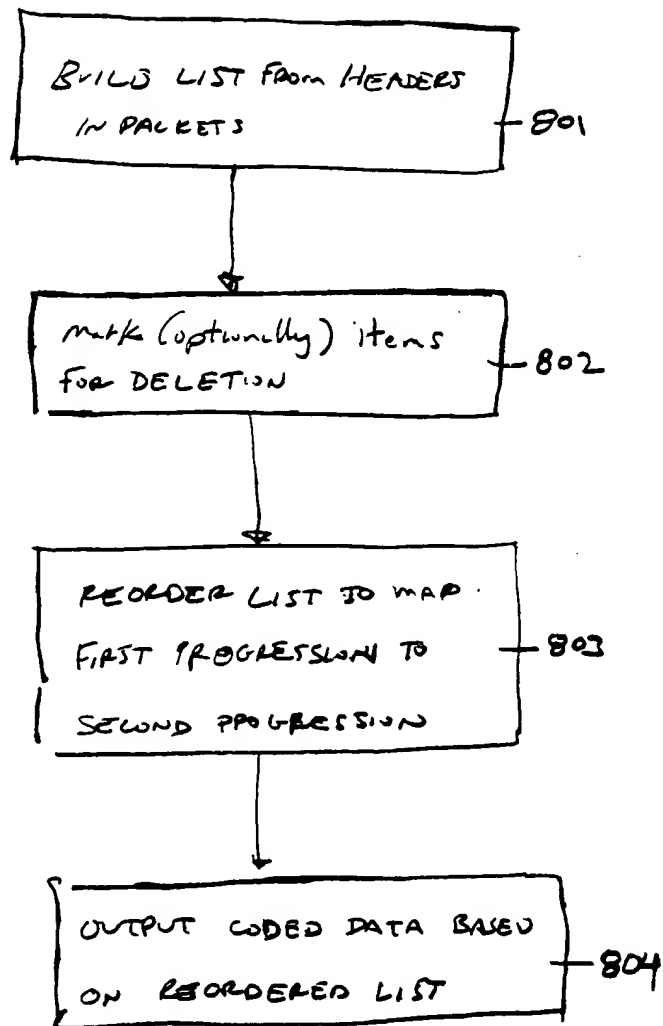


Figure 8

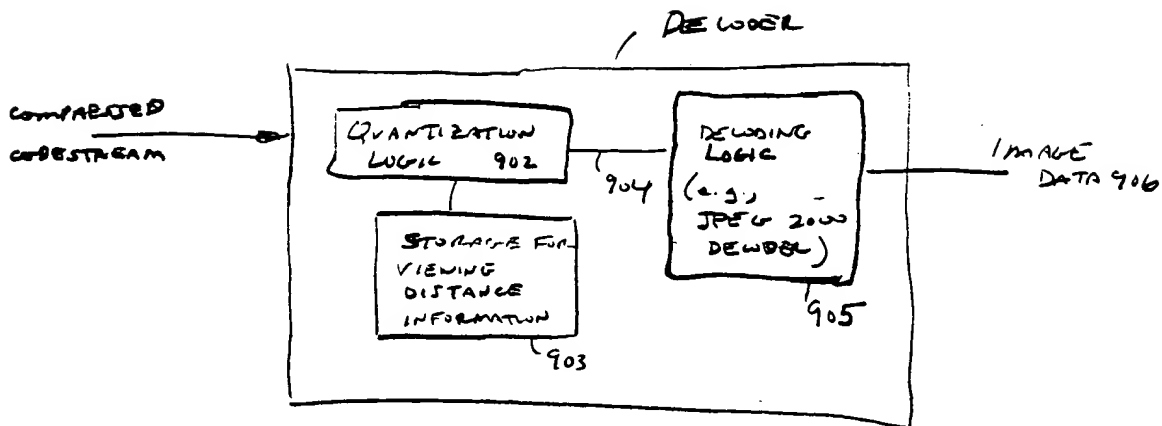


Figure 9

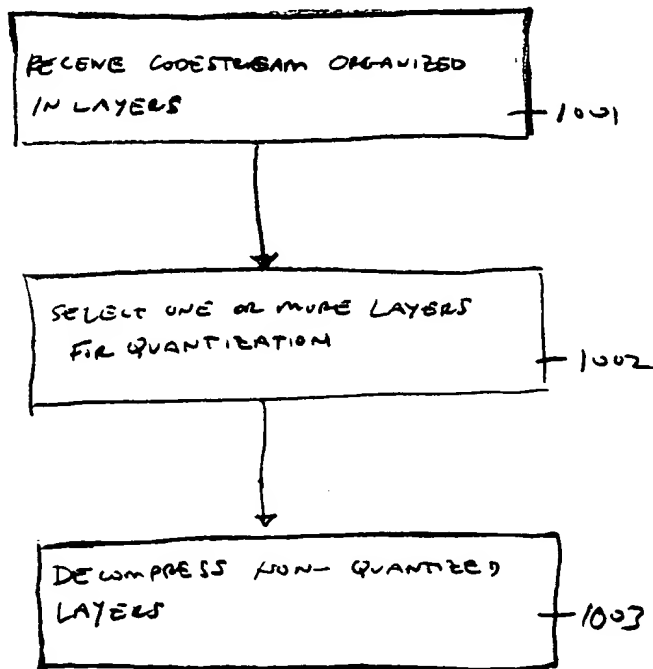


Figure 10

2025 RELEASE UNDER E.O. 14176

```

graph TD
    1101[Determine portion to  
be Edited AND DECODES  
ITEM] --> 1102[Perform edits]
    1102 --> 1103[Recompress the Portion]
    1103 --> 1104[CREATE A REPLACEMENT  
PORTION FOR THE  
CONSTREAM]
  
```

Figure 11

Year	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

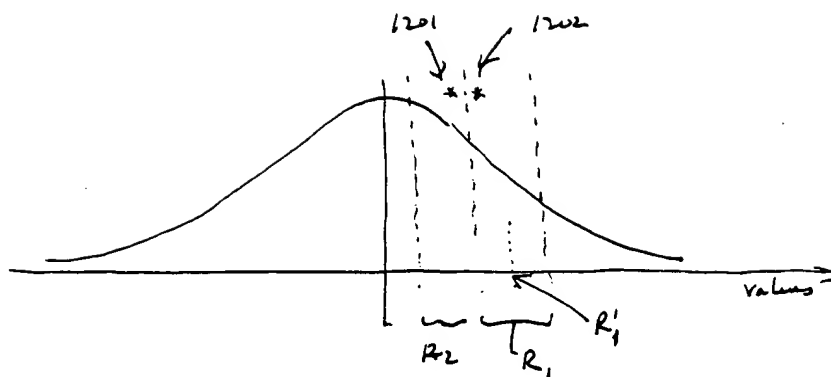


Figure 12

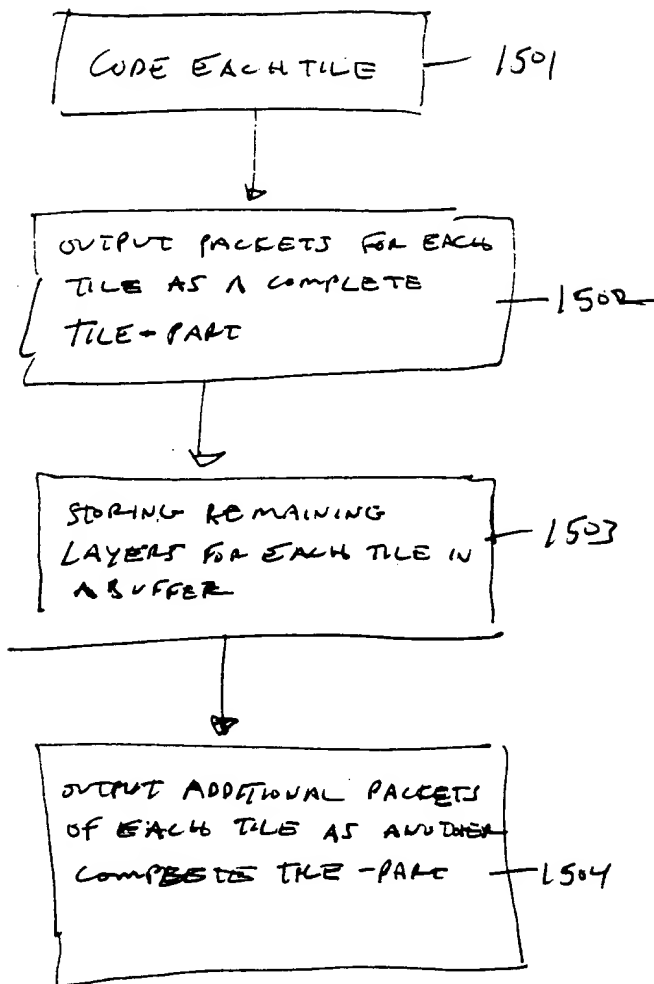


Figure 15 A

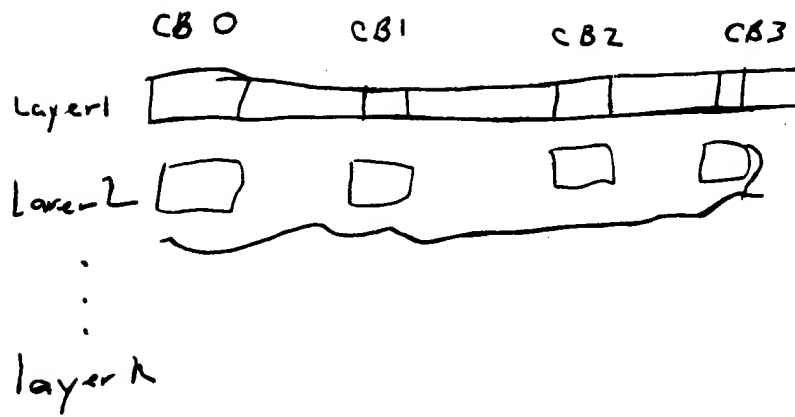
[illegible]

Fig 15B

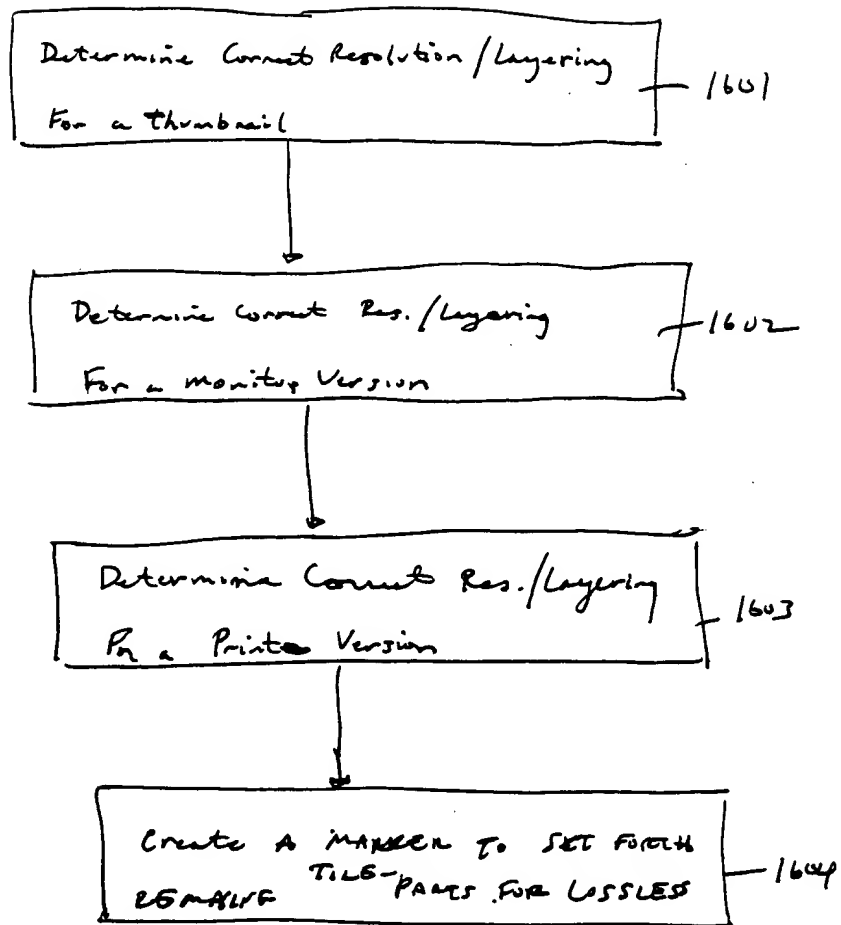


Figure 16

100200-10010000

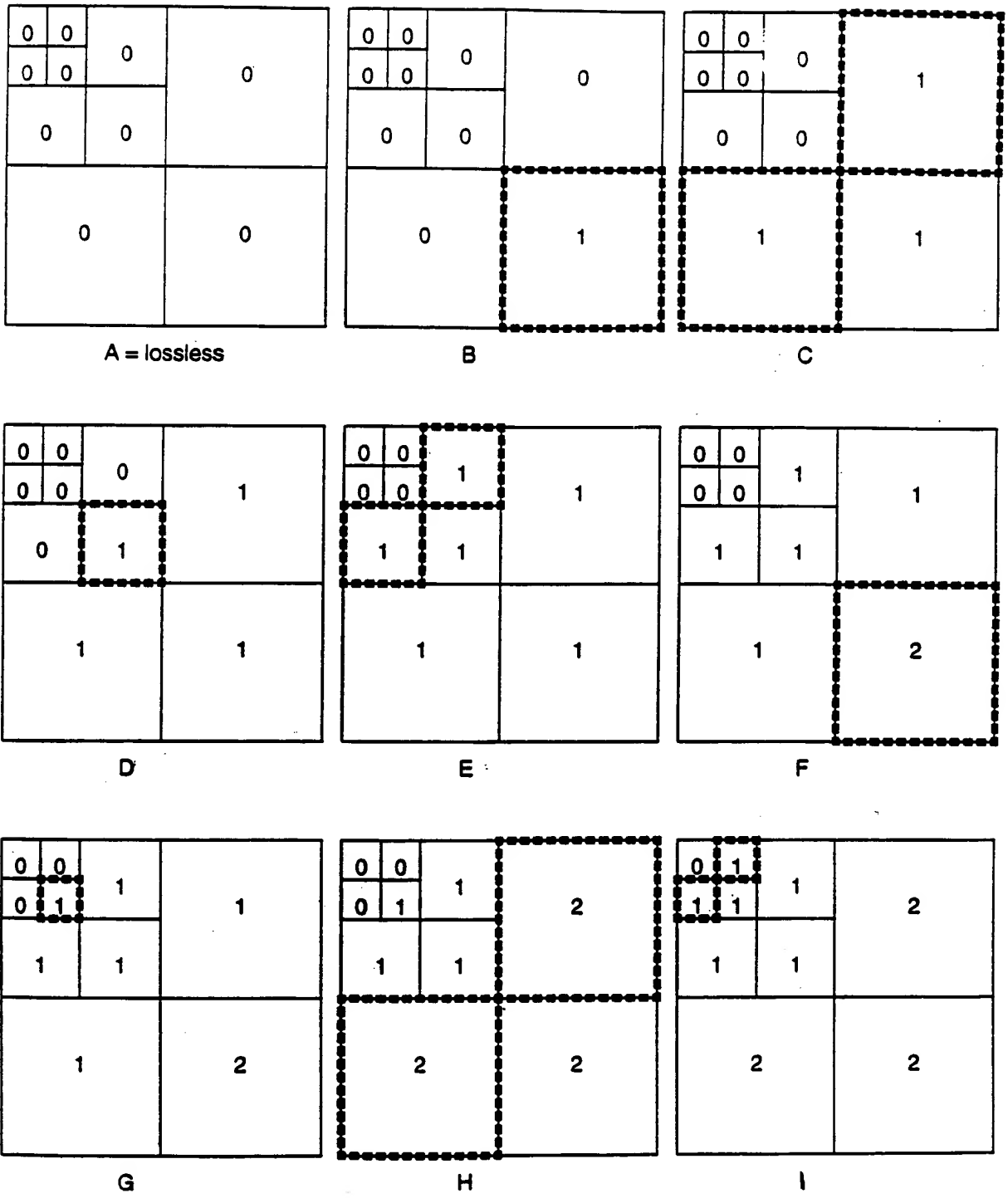


Figure 17

FOUO FOUO FOUO

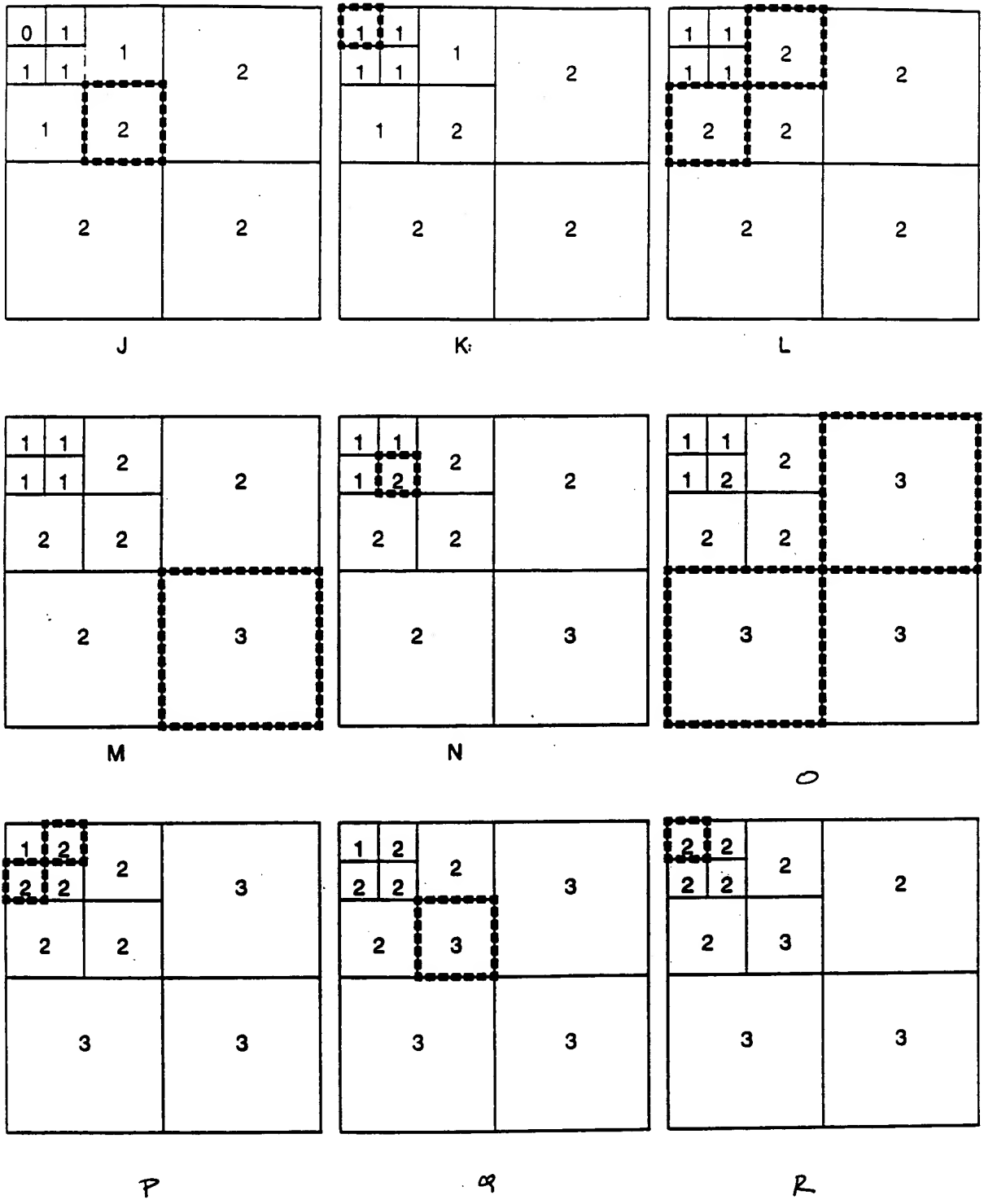


Figure 18

Figure 1 consists of three diagrams illustrating the hierarchical structure of the proposed color space. Each diagram is a 2x2 grid of blocks. The first diagram, labeled 'luminance', shows a 2x2 grid of blocks with values 0, 0, 0, and 1, and a 2x2 grid of blocks with values 2 and 3. The second diagram, labeled 'chrominance', shows a 2x2 grid of blocks with values 0, 2, 2, and 2, and a 2x2 grid of blocks with values 2, 3, 4, and 4. The third diagram, also labeled 'chrominance', shows a 2x2 grid of blocks with values 0, 2, 2, and 2, and a 2x2 grid of blocks with values 2, 3, 4, and 4. The diagrams are arranged horizontally, with the first diagram on the left, the second in the middle, and the third on the right.

chrominance

chrominance

2000

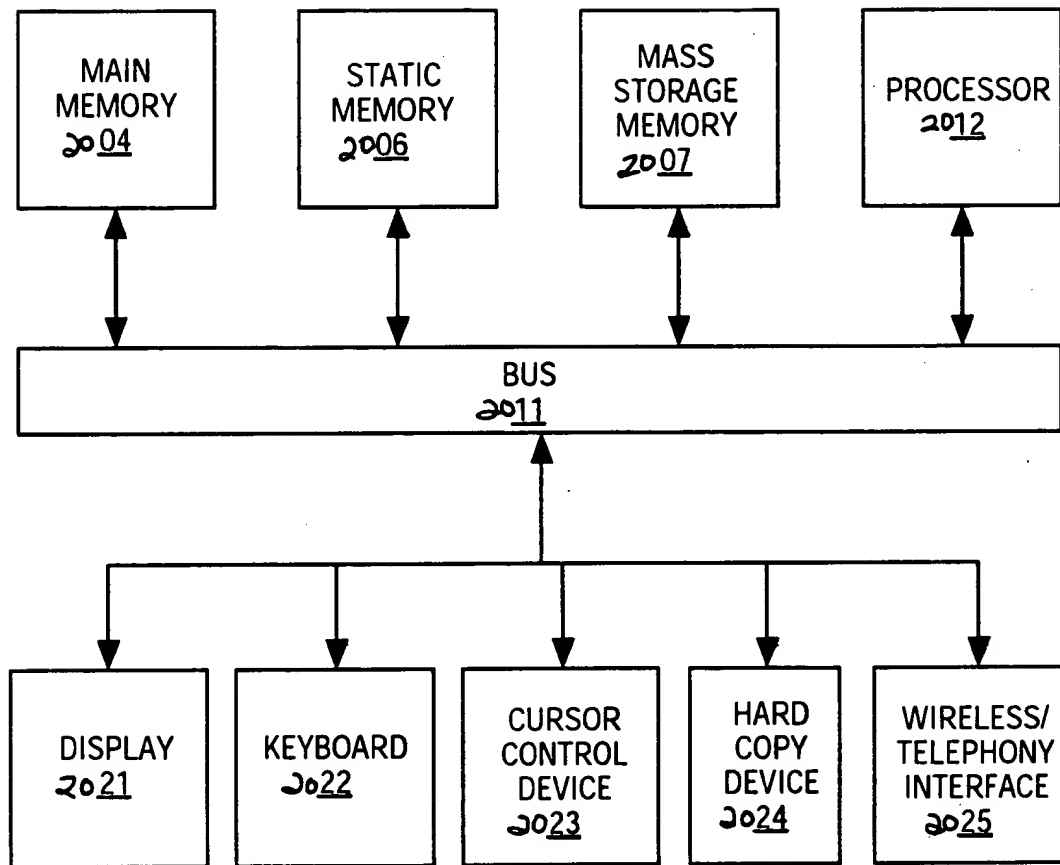


FIG. 20

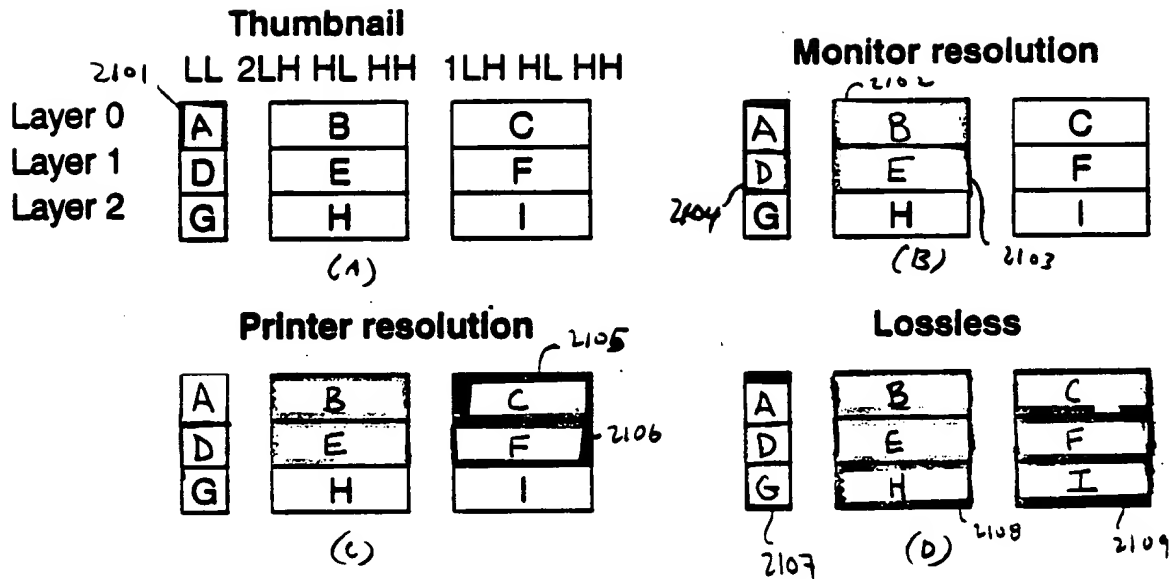


Figure 21

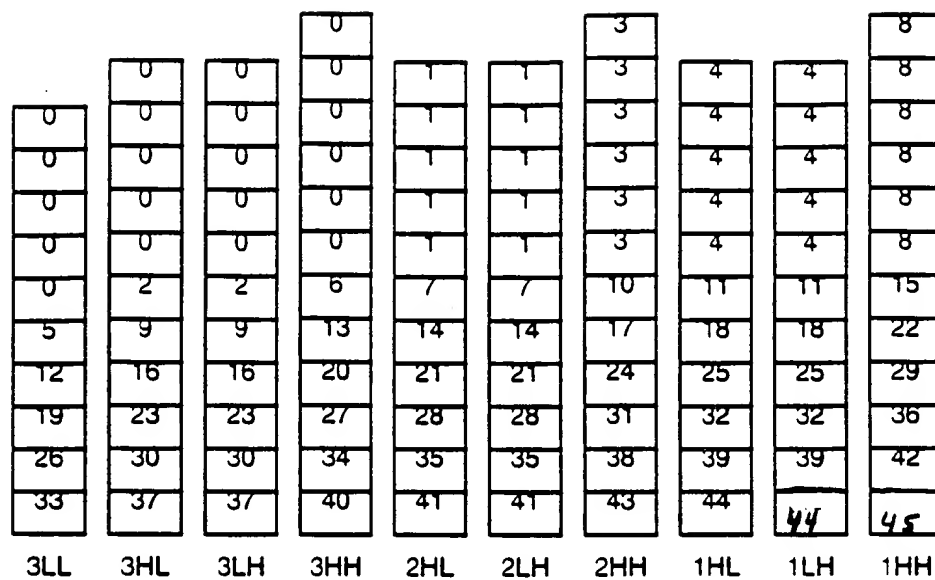


Figure 22

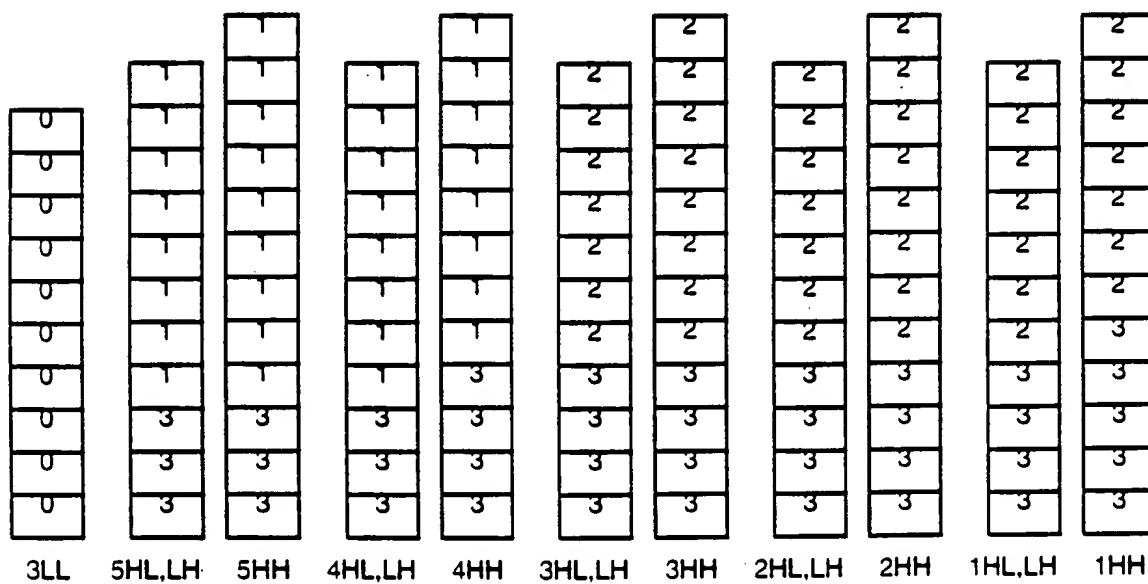


Figure 23

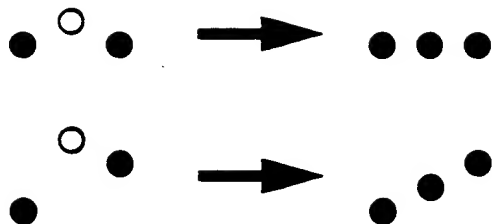
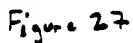
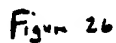
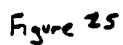


Fig- 24

FOUO FOUO FOUO

[illegible]

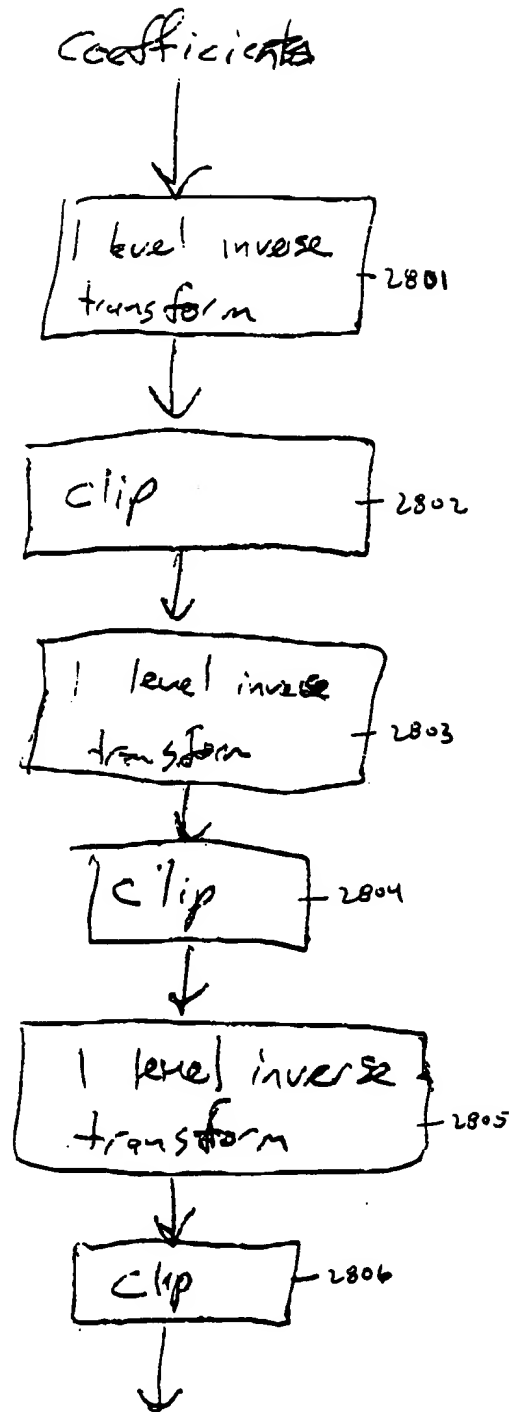
[illegible]

Figure 28